

CLAIMS LISTING

1. (currently amended) A degasser for molten metal comprising:
a microporous plate comprising at least one internal passageway and an interface tube capable of removing gas from said internal passageway attached to said microporous plate in flow communication with said internal passageway and further comprising a vacuum pump attached to said interface tube.
2. (original) The degasser of claim 1 further comprising a second interface tube in flow communication with a second internal passageway.
3. (original) The degasser of claim 2 wherein said second internal passageway and said internal passageway form a cavity.
4. (cancelled)
5. (cancelled)
6. (previously presented) The degasser of claim 1 wherein said passageway comprises passages with an equivalent diameter of at least about 500 microns to no larger than about 50 mm.
7. (previously presented) A degasser for molten metal comprising:

a microporous plate comprising at least one internal passageway and an interface tube attached to said microporous plate in flow communication with said internal passageway wherein said passageway comprises passages wherein said passages have an equivalent diameter of at least about 5 mm to no more than about 7.5 mm.

8. (previously presented) A degasser for molten metal comprising:

a microporous plate comprising at least one internal passageway and an interface tube attached to said microporous plate in flow communication with said internal passageway wherein said microporous plate comprises passages and wherein said passages are separated by a distance between about 0.5 to 10 times an equivalent diameter of said passage.

9. (original) The degasser of claim 1 wherein said microporous plate is about 3 mm to about 200 mm thick.

10. (original) The degasser of claim 1 further comprising a containment vessel with said microporous plate contained in said containment vessel.

11. (original) The degasser of claim 10 further comprising a filter in said containment vessel.

12. (original) The degasser of claim 1 further comprising a monitor in flow communication with said interface tube for monitoring gases flowing therethrough.

13-31. (cancelled)

32. (cancelled)

33. (previously presented) The degasser of claim 1 further comprising a purge arrangement attached to said interface tube.

34. (previously presented) The degasser of claim 2 further comprising a vacuum pump attached to said second interface tube.

35. (previously presented) The degasser of claim 2 further comprising a purge arrangement attached to said second interface tube.

36. (previously presented) The degasser of claim 7 further comprising a second interface tube in flow communication with a second internal passageway.

37. (previously presented) The degasser of claim 7 wherein said second internal passageway and said internal passageway form a cavity.

38. (previously presented) The degasser of claim 7 wherein
said microporous plate is about 3 mm to about 200 mm thick.

39. (previously presented) The degasser of claim 7 further
comprising a containment vessel with said microporous plate
contained in said containment vessel.

40. (previously presented) The degasser of claim 39 further
comprising a filter in said containment vessel.

41. (previously presented) The degasser of claim 7 further
comprising a monitor in flow communication with said
interface tube for monitoring gases flowing therethrough.

42. (previously presented) The degasser of claim 8 further
comprising a second interface tube in flow communication
with a second internal passageway.

43. (previously presented) The degasser of claim 8 wherein
said second internal passageway and said internal
passageway form a cavity.

44. (previously presented) The degasser of claim 8 wherein
said passages have an equivalent diameter of at least about
500 microns to no larger than about 50 mm.

45. (previously presented) The degasser of claim 8 wherein
said microporous plate is about 3 mm to about 200 mm thick.

46. (previously presented) The degasser of claim 8 further comprising a containment vessel with said microporous plate contained in said containment vessel.

47. (previously presented) The degasser of claim 46 further comprising a filter in said containment vessel.

48. (previously presented) The degasser of claim 8 further comprising a monitor in flow communication with said interface tube for monitoring gases flowing therethrough.

49. (previously presented) The degasser of claim 7 further comprising at least one of a vacuum pump attached or a purge arrangement attached to said interface tube.

50. (previously presented) The degasser of claim 8 further comprising at least one of a vacuum pump attached or a purge arrangement attached to said interface tube.